

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	205	sputter\$4 with scratch	US-PGPUB; USPAT; EPO; DERWENT	ADJ	ON	2009/11/18 10:13
L2	174	sputter\$4 with scratch	US-PGPUB; USPAT	ADJ	ON	2009/11/18 10:14
L3	38	(PVD or sputter\$4) with scratch adj3 (surface or substrate)	US-PGPUB; USPAT	ADJ	ON	2009/11/18 10:16
L4	1	"69621063"	EPO; DERWENT	ADJ	ON	2009/11/18 10:57
L5	0	"0727510"	EPO; DERWENT	ADJ	ON	2009/11/18 10:57
L6	7	"727510"	EPO; DERWENT	ADJ	ON	2009/11/18 10:57
S5	469	427/237.ccls.	US-PGPUB; USPAT	OR	OFF	2008/09/11 08:20
S6	457	427/249.1.ccls.	US-PGPUB; USPAT	OR	OFF	2008/09/11 08:20
S7	11	S5 and S6	USPAT	OR	OFF	2008/09/11 08:20
S8	13	S5 and S6	US-PGPUB; USPAT	OR	OFF	2008/09/11 08:20
S9	2	S8 not S7	US-PGPUB; USPAT	OR	OFF	2008/09/11 08:20
S79	1	"4055705".pn.	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 09:40
S80	1	"6123997".pn.	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 09:41
S81	6	"3,542,530".pn. or "3,676,085".pn. or "3,754,903".pn. or "3,928,026".pn. or "3,677,789".pn. or "4,880,614".pn.	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 09:42
S82	3	S81 and (Ti or titanium)	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 09:42
S83	51	alpha alumina same (TiC or TiCN or TiALN or TiAlCrN)	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 09:49

S84	48	("5137774").URPN.	USPAT	ADJ	ON	2009/05/20 10:45
S85	24	S84 and (seed or nucleat\$5 or innocula \$5)	USPAT	ADJ	ON	2009/05/20 10:53
S86	5	S85 and (seed or nucleat\$5 or innocula \$5) same (alpha) alumina	USPAT	ADJ	ON	2009/05/20 10:54
S87	307	(seed or nucleat\$5 or innocula\$5) same (alpha) alumina	USPAT	ADJ	ON	2009/05/20 10:55
S88	78	S87 and (TiC or TiN or TiCN or TiALN or TiAlCrN or Ti(C,N))	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 10:55
S89	48	S88 and (polish\$4 or rough\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 11:05
S90	3	TiAlCrN and (alpha) alumina	USPAT	ADJ	ON	2009/05/20 11:06
S91	10	TiAlCrN and (alpha) adj2 alumina	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:07
S92	4	TiAlCrN same oxidiz\$5	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:13
S93	4	TiAlCrN same alumina	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:31
S94	67	TiAlN same alumina	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:32
S95	8	TiAlN same alpha alumina	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:32
S96	59	S94 not S95	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:32
S97	1	"4,341,834".pn.	US-PGPUB; USPAT	ADJ	ON	2009/05/20 11:40
S98	30	S88 not S89	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:24
S99	229	S87 not S88	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:24
S100	101	S99 and (polish\$4 or rough\$4)	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:24
S101	128	S99 not S100	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:25
S102	30	S87 and cutting tool	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:37
S103	57	cutting tool same alpha alumina	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:40

S104	51	S103 not S102	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:40
S105	22	("6123997").URPN.	USPAT	ADJ	ON	2009/05/20 12:42
S106	8	TiAlN same alpha alumina	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:52
S107	1	"5679448".pn.	US-PGPUB; USPAT	ADJ	OFF	2009/05/20 12:58
S108	13	("5679448").URPN.	USPAT	ADJ	ON	2009/05/20 12:58
S109	2	S108 and alpha	USPAT	ADJ	ON	2009/05/20 12:59
S110	2	"20030022012"	US-PGPUB; USPAT	ADJ	ON	2009/09/29 12:53
S111	1	"69621063"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:40
S112	14	"727510"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:46
S113	21	"780484"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:47
S114	9	inoculation with polish \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:48
S115	0	inoculat\$4 with polish \$4 same alumin\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:49
S116	5	inoculat\$4 same polish \$4 same alumin\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 09:49
S117	174	kaisha kobe.as. and alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 09:56
S118	8	kaisha kobe.as. and alumina and tamagaki. in.	US-PGPUB; USPAT	ADJ	ON	2009/11/06 09:56
S119	100	alumina.clm. and substrate.clm. and ceramic powder.clm.	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:06
S120	17	S119 and alpha with alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:07
S121	2	"20050276990"	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:08
S122	9	kaisha kobe.as. and alumina and kohara.in.	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:09

S123	1386	taira.in.	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:27
S124	2	S123 and alpha adj4 alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:29
S125	2	10/551993 and (powder or size)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:30
S126	3327	sputter\$4 with powder	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:32
S127	354	sputter\$4 with powder same (chromium or cr or chrome oxide or alumina)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:33
S128	3	sputter\$4 with powder same (chromium or cr or chrome oxide) same alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:34
S129	125	sputter\$4 with target with powder same (chromium or cr or chrome oxide or alumina)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:37
S130	15	sputter\$4 with target with powder same (chromium or cr or chrome oxide) same (alumina or alox or aluminum)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 10:43
S131	51	taira.in. and alumina	JPO	ADJ	ON	2009/11/06 10:58
S132	1	taira.in. and alumina and alpha	JPO	ADJ	ON	2009/11/06 10:58
S133	0	taira.in. and alumina and membrane	JPO	ADJ	ON	2009/11/06 10:59
S134	0	"345556"	JPO	ADJ	ON	2009/11/06 11:01
S135	5	sputter\$4 with target with powder same (alumina or alox or aluminum) and (alum \$6 same alpha)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:05
S136	179	sputter\$4 with target same (alumina or alox or aluminum) and (alum\$6 same alpha)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:08
S137	57	sputter\$4 with target same (alumina or alox or aluminum) same alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:08

S138	37	sputter\$4 with target same (alumina or alox or aluminum) with alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:10
S139	2	sputter\$4 with target same (alumina or alox or aluminum or al) adj3 alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:11
S140	239	sputter\$4 with powder with (film or deposit\$4 or coat\$4) same (chromium or cr or chrome oxide or alumina)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:19
S141	15	sputter\$4 adj3 powder with (film or deposit\$4 or coat\$4) same (chromium or cr or chrome oxide or alumina)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:23
S142	1	"6074279".pn.	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:30
S143	1068	sputter\$4 with polish\$4 with (cemented carbide or substrate)	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:47
S144	91	sputter\$4 with polish\$4 with (cemented carbide or substrate) same alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:48
S145	14	sputter\$4 with polish\$4 with (cemented carbide or substrate) same alumina and alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:48
S146	0	sputter\$4 with polish\$4 with (bond coat) same alumina and alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:54
S147	0	sputter\$4 with polish\$4 with (bond coat) same alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:54
S148	2	sputter\$4 same polish \$4 same (bond coat) same alumina	US-PGPUB; USPAT	ADJ	ON	2009/11/06 11:54
S149	1	inoculat\$4 same (alumina or aluminum oxide) adj3 alpha	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 12:19
S150	152	nucleat\$4 same (alumina or aluminum oxide) adj3 alpha	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 12:19

S151	2	nucleat\$4 same (alumina or aluminum oxide) adj3 alpha same (polish\$4 or slurry or past or sonic\$6 or ultrasonic\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 12:20
S152	14	nucleat\$4 same (alumina or aluminum oxide) adj3 alpha and (low temperature) with (alumina)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/11/06 12:24
S153	1	"6254984".pn. and alpha	US-PGPUB; USPAT	ADJ	ON	2009/11/17 18:56

### EAST Search History (I nterference)

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